


REMARKS

The purpose of this preliminary amendment is to clarify the translation and to remove multiple dependent claims from the application to reduce filing costs. Favorable consideration of this application is respectfully requested.

Respectfully submitted,

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ATTACHMENT FOR CLAIM AMENDMENTS

The following is a marked up version of each amended claim in which underlines indicate insertions and brackets indicate deletions.

1. (AMENDED) A method of fabricating a self-assembled monolayer of a substance on a substrate comprising depositing the substance on the substrate using compressed carbon dioxide as [the] a solvent medium for the substance.

2. (AMENDED) A method as claimed in claim 1, wherein [the] at least one of pressure [and/or] and temperature of the compressed carbon dioxide is[/are] selectively controlled so as to enhance [the] a density of the self-assembled monolayer on the substrate.

3. (AMENDED) A method as claimed in claim 1 [or 2] comprising the use of a co-solvent in combination with the compressed carbon dioxide.

4. (AMENDED) A method as claimed in claim 3, wherein the co-solvent comprises at least one of H₂O, CH₃OH, CF₃OH, CF₃CH₂OH, CF₃CF₂OH, (CF₃)₂CHOH, CH₄, C₂H₄, C₂F₆, CHF₃, CClF₃, C₂H₆, SF₆, Propylene, Propane, NH₃, Pentane, ⁱPrOH, MeOH, EtOH, ⁱBuOH, Benzene, and Pyridine.

5. (AMENDED) A method as claimed in [any one of claims 1 to 4] claim 1, wherein the substrate comprises a metallic substance.

6. (AMENDED) A method as claimed in claim 5, wherein the metallic substance comprises at least one of gold, silver, copper, iron, mercury, palladium, gallium arsenide, ferrous oxide, and indium tin oxide.

9. (AMENDED) A method as claimed in claim 7 [or 8], wherein X comprises a thiol.

10. (AMENDED) A method as claimed in [any one of claims 7 to 9] claim 7, wherein Y comprises a CF_3 functional group.

11. (AMENDED) A method as claimed in [any one of claims 7 to 10] claim 7, wherein m and n lie within [the] a range of 1 to 20.

12. (AMENDED) A method as claimed in claim 11, wherein m and n lie within [the] a range of 5 to 10.

14. (AMENDED) A method as claimed in [any one of claims 7 to 13] claim 7, wherein Y further comprises at least one of vinyl, styryl, acryloyl, methacryloyl [or] and alkyne in combination with a spacer group.

15. (AMENDED) A method as claimed in claim 14, wherein the spacer group comprises at least one of CH_2 [or] and CF_2 .

16. (AMENDED) A method as claimed in [any one of claims 1 to 5] claim 1, wherein the substrate comprises at least one glass, mica, SiO_2 , Al_2O_3 , [or] and Ga_2O_3 .

19. (AMENDED) A method as claimed in claim 18, wherein Si comprises at least one of SiCl_3 , $\text{Si}(\text{OCH}_3)_3$, $\text{Si}(\text{OCH}_2\text{CH}_3)_3$, $\text{Si}(\text{OCH}_3)_2\text{Cl}$ [or] and $\text{Si}(\text{CH}_2\text{CH}_3)_2\text{Cl}$.

20. (AMENDED) A method as claimed in [any one of claims 17 to 19] claim 17, wherein Y comprises a CF_3 functional group.

21. (AMENDED) A method as claimed in [any one of claims 17 to 19] claim 17, wherein m and n lie within [the] a range of 1 to 20.

22. (AMENDED) A method as claimed in claim 21, wherein m and n lie within [the] a range of 5 to 10.

24. (AMENDED) A method as claimed in [any one of claims 17 to 23] claim 17, wherein Y further comprises at least one of vinyl, styryl, acryloyl, methacryloyl [or] and alkyne in combination with a spacer group.

25. (AMENDED) A method as claimed in claim 24, wherein the spacer group comprises at least one of CH_2 [or] and CF_2 .

26. (AMENDED) A method as claimed in [any one of the preceding claims] claim 17, wherein the self-assembled monolayer has an ellipsometry thickness of about 30\AA and a water contact angle of about 110° .